

Serial No. 08/585,207

11 annular array of rotor buckets mounted on the drive shaft means for rotation
12 therewith, the rotor buckets facing the stator buckets and being closely adjacent
13 thereto, and conduit means for delivering a fluid into the rotor buckets and the stator
14 buckets;

15 the stator buckets having openings for passing the fluid toward
16 the rotor buckets, said openings being disposed in a common plan that is transverse
17 to said axis of rotation, and the rotor buckets have openings for receiving fluid from
18 the stator buckets, said rotor bucket openings being disposed in a common plane that
19 is closely adjacent the plane of the stator bucket openings;

20 drive means for rotating the drive shaft means whereby the fluid
21 passes back and forth between the rotor buckets and the stator buckets as the rotor
22 buckets pass the stator buckets thereby heating the moving fluid; and

23 conduit means for passing the heated fluid to a heating zone.

In claim 3, line 1, change "1" to --- 9 ---.

2 3 5. (Amended) A heat generator as defined in claim 1, in which the number
of rotor buckets [is greater than] varies from the number of stator buckets.

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Please add the following new claim:

9. A heat generator comprising:

a housing having an internal turbine chamber, an inlet opening and

first conduit means for delivering a fluid to be heated into the turbine chamber, and

an outlet opening and second conduit means for receiving heated fluid from the

turbine chamber;

a drive shaft means mounted in the housing for rotation about an

axis;

a stator mounted in the turbine chamber, the stator having an

annular array of stator buckets opening in a common axial direction;

a rotor mounted in the turbine chamber, the rotor having an

annular array of rotor buckets mounted on the shaft means for rotation therewith, the

rotor buckets facing the stator buckets and being closely adjacent thereto, and

conduit means for delivering a fluid into the rotor buckets and the stator buckets;

drive means for rotating the drive shaft means whereby the fluid

passes back and forth between the rotor buckets and the stator buckets as the rotor

buckets pass the stator buckets thereby heating the moving fluid;

an annular array of centrifugal pumping vanes mounted on the

rotor outside the turbine chamber for pumping fluid into the housing and toward the

stator buckets; and

conduit means for passing the heated fluid to a heating zone.